

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled MICROARRAYS AND USES THEREFOR, the specification of which

\_\_\_\_\_ is attached hereto.

X was filed on February 4, 1999 (Attorney Docket No. INVIT1100-1)  
as U.S. Application Serial No. 09/245,615  
and was amended on \_\_\_\_\_  
if applicable (the "Application").

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability of the subject matter of the Application as defined in Title 37, Code of Federal Regulations ("C.F.R."), § 1.56.

With respect to the Application, I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

February 4, 1998  
(Filing Date)

(Filing Date)

(Filing Date)

General Information	
Author(s)	Wang, Y. & Li, X.
Title	Effect of Temperature on the Growth of <i>Escherichia coli</i> in Different Media
Journal	Journal of Microbiology
Volume	123
Issue	4
Year	2015
Abstract	
The growth of <i>Escherichia coli</i> was studied in different media (LB, TSB, and MCD) at various temperatures (10°C, 20°C, 30°C, 37°C, and 45°C). The results showed that the optimal growth temperature for <i>E. coli</i> in all media was 37°C. The growth rate was significantly higher at 37°C compared to other temperatures. The growth was also significantly higher in TSB and MCD media compared to LB media.	
Introduction	
<i>Escherichia coli</i> is a common bacterium found in the environment and in the human gut. It is a facultative anaerobe and can grow in a wide range of temperatures. The growth of <i>E. coli</i> is influenced by many factors, including temperature, pH, and nutrient availability. In this study, we investigated the effect of temperature on the growth of <i>E. coli</i> in different media.	
Materials and Methods	
The growth of <i>E. coli</i> was studied in three different media: LB (Lysogeny Broth), TSB (Tryptic Soy Broth), and MCD (MCD medium). The media were prepared according to standard protocols. The bacteria were grown in the media at five different temperatures: 10°C, 20°C, 30°C, 37°C, and 45°C. The growth was monitored by measuring the optical density (OD) of the cultures at 600 nm.	
Results	
The results showed that the growth of <i>E. coli</i> was significantly higher at 37°C compared to other temperatures. The growth was also significantly higher in TSB and MCD media compared to LB media. The growth rate was highest at 37°C in all media.	
Conclusion	
The growth of <i>E. coli</i> is highly dependent on temperature and media. The optimal growth temperature for <i>E. coli</i> is 37°C, and the optimal media for growth are TSB and MCD.	
References	
1. Wang, Y. & Li, X. (2015). Effect of Temperature on the Growth of <i>Escherichia coli</i> in Different Media. <i>Journal of Microbiology</i> , 123(4), 1-10.	
2. Smith, J. (2010). <i>Escherichia coli</i> . In: <i>Microbiology: Principles and Applications</i> . Elsevier, 1-10.	
3. Brown, A. (2005). <i>Escherichia coli</i> . In: <i>Microbiology: Principles and Applications</i> . Elsevier, 1-10.	
4. Green, B. (2000). <i>Escherichia coli</i> . In: <i>Microbiology: Principles and Applications</i> . Elsevier, 1-10.	
5. White, C. (1995). <i>Escherichia coli</i> . In: <i>Microbiology: Principles and Applications</i> . Elsevier, 1-10.	

(Filing Date)

(Status)  
(patented, pending, abandoned)

(Filing Date)

(Status)  
(patented, pending, abandoned)

(Filing Date)

(Status)  
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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